

The Global Robot Operating System Market Size Reach USD 1.8 Billion Growing with 12.9% of CAGR by 2031

Adoption of automation in industrial sector, adoption of ROS by manufacturers, especially in developing economies, are factors that boost the global market.

PORTLAND, OR, UNITED STATES, October 1, 2024 /EINPresswire.com/ -- Allied Market Research published a new report, titled, "The [Global Robot Operating System Market Size](#) Reach USD 1.8 Billion Growing with 12.9% of CAGR by 2031." The report offers an

extensive analysis of key growth strategies, drivers, opportunities, key segment, Porter's Five Forces analysis, and competitive landscape. This study is a helpful source of information for market players, investors, VPs, stakeholders, and new entrants to gain thorough understanding of the industry and determine steps to be taken to gain competitive advantage.

The global robot operating system market size was valued at USD 534.2 million in 2022, and is projected to reach USD 1.8 billion by 2032, growing at a CAGR of 12.9% from 2023 to 2032.

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The rise in adoption of automation in the industrial sector, along with the increase in adoption of ROS by manufacturers, especially in developing economies, are some of the important factors that boost the global market across the globe. Furthermore, the surge in demand for collaborative modular robots is a significant factor anticipated to fuel the expansion of the robot operating systems market during the forecast period.

The robot operating systems market is segmented on the basis of robot type, application, industry vertical, and region. By robot type, the market is classified into SCARA robots, articulated robots, parallel robots, collaborative robots, and others. By application, the market is



segregated into plastic injection and blow molding, pick and place, testing and quality inspection, PCB handling and ICT, metal stamping and press tending, CNC machine tending, co-packing, and end-of-line packaging. As per industry vertical, the market is divided into electrical and electronics, metal and machinery, food and beverages, healthcare, automotive, rubber and plastic, and others. By region, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

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Covid-19 Scenario:

□ The impact of the COVID-19 pandemic on the robot operating systems (ROS) market size has been mixed. While there were some challenges, such as supply chain disruptions and the shift to remote work, there were also potential opportunities, such as the increased demand for automation and the adoption of telehealth and remote robotics.

□ The pandemic is expected to have a positive impact on the ROS market size in the long term. This is primarily attributed to the rise in offering remote working solutions by numerous organizations which has led to a surge in the need for cloud robotics, which, in turn, is expected to drive the growth of robot operating system industry during the forecast period.

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Depending on the robot type segment, articulated robots dominated the robot operating systems market share in 2022 and are expected to remain dominant during the forecast period. This growth is attributed to the growing need to reduce human efforts and errors in production processes, along with the surging adoption of articulated robots in the electronics sector. However, collaborative robots are expected to witness the highest growth in the upcoming years, owing to the increasing investments in automation in the manufacturing processes, along with the higher return on investment than conventional industrial robotics systems.

Depending on the industry vertical segment, the electrical and electronic segment dominated the robot operating systems market share in 2022 and is expected to continue this trend during the forecast period, owing to the surge in demand for data-driven robotics in the electronic industry, along with the growing adoption of collaborative robots within this sector. However, the metal and machinery segment is expected to witness the highest growth in the upcoming years, owing to the surging demand for automation and operational efficiency, along with the ongoing technological advancements in robotics, including software capabilities provided by ROS.

Region-wise, the robot operating systems market was dominated by Asia-Pacific in 2022 and is expected to retain its position during the forecast period, owing to the increase in consumer awareness about the benefits of robot operating systems, along with the presence of favorable

government regulations, further contributing to the market growth within the region. However, Asia-Pacific is expected to witness significant growth during the forecast period, due to the increased customer-centric robot operating systems solutions tailored to the diverse needs of the consumers in this region. The global robot operating system industry is dominated by key players such as Kuka AG, Fanuc Corporation, Yaskawa Electric Corp., Microsoft Corporation, Omron Corporation, Clearpath Robotics, iRobot Corporation, ABB Ltd., Denso Corporation, and Universal Robotics.

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Lastly, this report provides market intelligence most comprehensively. The report structure has been kept such that it offers maximum business value. It provides critical insights into the market dynamics and will enable strategic decision-making for the existing market players as well as those willing to enter the market.

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